

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,701	02	2/13/2002	Seon Goo Lee	WK2K1080	1832
23504	7590	06/03/2005	EXAMINER		
WEISS & N		I AVENITE	GRAYBILL	GRAYBILL, DAVID E	
4204 NORTH BROWN AVENUE SCOTTSDALE, AZ 85251				ART UNIT	PAPER NUMBER
				2822	
			DATE MAILED: 06/03/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)					
Office Action Summers	10/076,701	LEE ET AL.					
Office Action Summary	Examiner	Art Unit					
	David E. Graybill	2822					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 14 Ma	arch 2005.						
<u> </u>	action is non-final.						
3) Since this application is in condition for allowan		secution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-19 and 27-31</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-19 and 27-31</u> is/are rejected.							
	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> </ul>							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
cos and addition detailed effice ability to a list of the certified topies flot received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)						
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date 3 pages.		atent Application (PTO-152)					

Art Unit: 2822

The reply filed on 3-14-5 is not fully responsive to the prior Office action because it fails to conform to the provisions of MPEP 714.03:

37 CFR 1.111. Reply by applicant or patent owner to a non-final Office action.

- (b) In order to be entitled to reconsideration or further examination, the applicant or patent owner must reply to the Office action. The reply by the applicant or patent owner must be reduced to a writing which distinctly and specifically points out the supposed errors in the examiner's action and must reply to every ground of objection and rejection in the prior Office action. The reply must present arguments pointing out the specific distinctions believed to render the claims, including any newly presented claims, patentable over any applied references. If the reply is with respect to an application, a request may be made that objections or requirements as to form not necessary to further consideration of the claims be held in abeyance until allowable subject matter is indicated. The applicant's or patent owner's reply must appear throughout to be a bona fide attempt to advance the application or the reexamination proceeding to final action. A general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references does not comply with the requirements of this section.
- (c) In amending in reply to a rejection of claims in an application or patent under reexamination, the applicant or patent owner must clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. The applicant or patent owner must also show how the amendments avoid such references or objections.

Where a bona fide response to an examiner's action is filed before the expiration of a permissible period, but through an apparent oversight or inadvertence some point necessary to a complete response has been omitted - such as an amendment or argument as to one or two of several claims involved or signature to the amendment - the examiner, as soon as he or she notes the omission, should require the applicant to complete his or her response within a specified time limit (usually one month) if the period for response has already expired or insufficient time is left to take action before the expiration of the period. If this is done the application should not be held abandoned even though the prescribed period has expired.

Specifically, the rejections of claims 10 and 18 over Kinsman, Fukui and Jones; claim 11 over Kinsman, Fukui and Lo; and claims 1 and 10 over Kinsman and Lo, have not been addressed.

Because the response appears to be bona fide, but through an apparent oversight or inadvertence the response is incomplete, and in order

Art Unit: 2822

to continue to afford applicant the benefit of compact prosecution, the requirement to complete the response within a one month time limit is waived, the amendment is entered, and the claims are examined on the merits.

In the rejections infra, generally, reference labels are recited only for the first recitation of identical claim elements.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 27-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Shin (6798049).

The applied reference has a common assignee and inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37

Art Unit: 2822

CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

At column 10, line 5 to column 12, line 60, Shin discloses a semiconductor package, comprising: a substrate 10 having a resin layer 11 with first and second surfaces wherein a plurality of electrically conductive patterns 12 are formed thereon, the resin layer having an aperture 16 formed in a central area thereof; an inherent solder mask 15, 17 formed on the first and second surfaces of the substrate, the solder mask covering the electrically conductive patterns; a thin conductive film 18 placed over the aperture and coupled (at least indirectly physically) to the solder mask on the first surface of the substrate, the conductive film coupled to the electrically conductive patterns on the first surface of the resin layer through openings (illustrated in FIG. 4A, not labeled) formed in the solder mask; a first semiconductor chip 1 having a first surface coupled to the thin conductive film and a second surfaces having a plurality of input/output pads 1a formed thereon; a second semiconductor chip 4 having a first surface coupled to the first semiconductor chip and a second surface having a plurality of input/output pads 4a formed thereon; an encapsulate 31 for encapsulating the aperture and the first and second semiconductor chips; a

Art Unit: 2822

plurality of first conductive wires 20 for connecting the input/output pads of the first semiconductor chip to the electrically conductive patterns formed on the second surface of the resin layer; a plurality of second conductive wires 20 for connecting the input/output pads of the second semiconductor chip to the electrically conductive patterns formed on the second surface of the resin layer; an adhesive 34 attached to the second surface of the first semiconductor chip; a plurality of conductive balls 40 coupled to the electrically conductive patterns formed on the second surface of the resin layer.

To further clarify the disclosure of an inherent solder mask, the term "solder mask" is a statement of intended use of 15, 17 that does not appear to result in a structural difference between the claimed solder mask and 15, 17. Further, because 15, 17 appears to have the same structure as the claimed solder mask, it appears to be inherently capable of being used for the intended use as a solder mask, and the statement of intended use does not patentably distinguish the claimed solder mask from 15, 17. The manner in which a product operates is not germane to the issue of patentability of the product; Ex parte Wikdahl 10 USPQ 2d 1546, 1548 (BPAI 1989); Ex parte McCullough 7 USPQ 2d 1889, 1891 (BPAI 1988); In re Finsterwalder 168 USPQ 530 (CCPA 1971); In re Casey 152 USPO 235, 238

Art Unit: 2822

(CCPA 1967). And, claims directed to product must be distinguished from the prior art in terms of structure rather than function. In re Danley, 120 USPQ 528, 531 (CCPA 1959). "Apparatus claims cover what a device is, not what a device does [or is intended to do]." Hewlett-Packard Co. v. Bausch & Lomb Inc., 15 USPQ2d 1525, 1528 (Fed. Cir. 1990).

To further clarify, the film is inherently conductive because it is comprised of matter, and matter inherently conducts physical forces and electromagnetic, thermal and sound energy. Also, the film is inherently thin because it is, by definition, a thin covering or coating.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly

Art Unit: 2822

owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 8-10, 12, 14 and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Shin (6798049) and Jones (5639695).

As cited supra, Shin discloses the following:

A semiconductor package, comprising: a substrate 10 having a resin 11 layer with first and second surfaces wherein a plurality of electrically conductive patterns 12 are formed thereon, the resin layer having an aperture 16 formed in a central area thereof; a solder mask formed on the first and second surfaces of the substrate, the solder mask covering the electrically conductive patterns; a first semiconductor chip 1 having first and second surfaces, the second surface having a plurality of input/output pads 1a formed thereon, the first semiconductor chip being placed in the aperture of the substrate; a plurality of first conductive wires 20 for connecting the input/output pads of the first semiconductor chip to the electrically conductive patterns formed on the resin layer; an adhesive 34 attached to the second surface of the first semiconductor chip; a second semiconductor chip 4 having first and second surfaces, the second surface having a plurality

Art Unit: 2822

of input/output pads 4a formed thereon, the second semiconductor chip being attached to the adhesive; a plurality of second conductive wires 20 for connecting the input/output pads of the second semiconductor chip to the electrically conductive patterns formed on the resin layer; an encapsulate 31 for encapsulating the aperture the first and second semiconductor chips, and the first and second conductive wires; and a conductive thin film extending across the aperture of the substrate and coupled to the first side of the first semiconductor chip and the solder mask formed on the first surface of the substrate, the conductive thin film coupled to the electrically conductive patterns formed on the first surface of the substrate through openings formed in the solder mask; wherein the electrically conductive patterns are formed on the first and second surfaces of the resin layer and are connected through at least one conductive via 14; wherein the electrically conductive patterns formed on the second surface of the resin layer are connected (at least physically indirectly) to the conductive thin film; wherein the second semiconductor chip has an inherently insulating layer 34 formed on the first surface thereof.

A semiconductor package, comprising: a substrate having a resin layer with first and second surfaces wherein a plurality of electrically conductive patterns are formed thereon, the resin layer having an aperture formed at a

Art Unit: 2822

central area thereof; a solder mask formed on the first and second surface of the substrate, the solder mask covering the plurality of electrically conductive patterns; a first semiconductor chip having first and second surfaces, the second surface having a plurality of input/output pads formed thereon, the first semiconductor chip being placed in the aperture of the substrate; a plurality of first conductive wires for connecting the input/output pads of the first semiconductor chip to the electrically conductive patterns formed on the the resin layer; a second semiconductor chip having first and second surfaces, the second surface having a plurality of input/output pads formed thereon; means 34 coupled to the second surface of the first semiconductor chip for coupling the first semiconductor chip to the second semiconductor chip; a plurality of second conductive wires for connecting the input/output pads of the second semiconductor chip to the electrically conductive patterns formed on the resin layer; means 31 for encapsulating the aperture of the substrate, the first and second semiconductor chips, and the first and second conductive wires; a conductive thin film extending across the aperture of the substrate and coupled to the solder mask formed on the first surface of the substrate, the conductive thin film coupled to the electrically conductive patterns formed on the first surface of the substrate through openings formed in the solder

Art Unit: 2822

mask; wherein the electrically conductive patterns formed on the second surface of the resin layer are connected (at least physically indirectly) to the conductive thin film; wherein the second semiconductor chip has an insulating layer 34 formed on the first surface thereof.

To further clarify, the layer 34 is inherently insulating because it insulates the first and second chip from direct contact, and because it is comprised of matter, and matter is inherently, to some degree, insulating to electromagnetic, thermal and sound energy.

However, Shin does not appear to explicitly disclose that the film is electrically coupled; the film absorbs electromagnetic waves and dissipates heat from the first semiconductor device; and wherein the electrically conductive patterns formed on the second surface of the resin layer are electrically connected to the conductive thin film.

Nonetheless, at column 1, lines 12-17; column 4, lines 63-65; and column 5, line 46 to column 6, line 13, Jones discloses wherein the electrically conductive patterns 109 formed on the first surface of the resin layer are electrically connected to the conductive thin film 97, 98; the electrically conductive patterns 99 formed on the second surface of the resin layer are electrically connected to the conductive thin film; and the film dissipates heat from the first semiconductor device 18. Furthermore, it

Art Unit: 2822

would have been obvious to combine the electrical connection of Jones with the disclosure of Shin because it would facilitate use of the conductive thin film of Shin as a ground plane and heat spreading layer.

Also, the film 97, 98 inherently absorbs electromagnetic waves because it is grounded. Indeed, the instant specification, at page 9, lines 1-5, applicant discloses that the film absorbs electromagnetic waves merely because it is grounded.

Claims 2-7, 13, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Shin and Jones as applied to claims 1 and 14, and further in combination with Fukui (6657290).

Shin does not appear to explicitly disclose wherein each of first conductive wires are stand off stitch bonded; wherein one end of each first conductive wire is ball-bonded to one of the electrically conductive patterns and the other end is stitch-bonded to one of the input/output pads of the first semiconductor chip; wherein a conductive ball is coupled to the input/output pad of the first semiconductor chip and the first conductive wire is stitch-bonded to the conductive ball; wherein each of the plurality of second conductive wires for connecting the input/output pads of the second semiconductor chip to the electrically conductive patterns on the resin layer of the substrate are normal wire bonded; wherein one end of each second

Art Unit: 2822

conductive wire is ball-bonded to one of the electrically conductive patterns and the other end is stitch-bonded to one of the input/output pads of the second semiconductor chip; wherein a conductive ball is fused to the input/output pad of the second semiconductor chip and the second conductive wire is stitch-bonded to the conductive ball; wherein the horizontal width of the second semiconductor chip is wider than that of the first semiconductor chip; wherein one end of each first conductive wire is ball-bonded to one of the electrically conductive patterns and the other end is stitch-bonded to one of the input/output pads of the first semiconductor chip so that the a curved portion of the first conductive wire is placed on the electrically conductive pattern; wherein one end of each second conductive wire is ball-bonded to one of the electrically conductive patterns and the other end is stitch-bonded to one of the input/output pads of the second semiconductor chip so that a curved portion of the second conductive wire is placed on the electrically conductive pattern.

Nonetheless, at column 1, lines 15-22; column 2, lines 21-31; column 3, lines 46-48; column 4, lines 54-57; column 5, line 51 to column 6, line 34; column 8, lines 51-64; column 9, line 44 to column 11, line 7; column 11, lines 21-26; column 12, lines 19-46; column 14, lines 2-14 and 33-53; and column 15, lines 14-17, Fukui discloses wherein each of first conductive

Art Unit: 2822

wires 4 are stand off stitch bonded "reverse wire bonding"; wherein one end of each first conductive wire is ball-bonded to one of the electrically conductive patterns "wire bonding terminal" and the other end is stitchbonded to one of the input/output pads 21 of the first semiconductor chip 32 "reverse wire bonding"; wherein a conductive ball is coupled to the input/output pad of the first semiconductor chip and the first conductive wire is stitch-bonded to the conductive ball "reverse wire bonding"; wherein one end of each second conductive wire 3 is ball-bonded to one of the electrically conductive patterns and the other end is stitch-bonded to one of the input/output pads 21 of the second semiconductor chip 31; wherein a conductive ball is fused to the input/output pad of the second semiconductor chip and the second conductive wire is stitch-bonded to the conductive ball; wherein the horizontal width of the second semiconductor chip is wider than that of the first semiconductor chip; wherein one end of each first conductive wire is ball-bonded to one of the electrically conductive patterns and the other end is stitch-bonded to one of the input/output pads of the first semiconductor chip so that the a curved portion of the first conductive wire is placed on the electrically conductive pattern; and wherein one end of each second conductive wire is ball-bonded to one of the electrically conductive patterns and the other end is stitch-bonded to one

Art Unit: 2822

of the input/output pads of the second semiconductor chip so that a curved portion of the second conductive wire is placed on the electrically conductive pattern. Moreover, it would have been obvious to combine this disclosure of Fukui with the disclosure of Shin and Jones because, as disclosed by Fukui as cited, it would improve the performance of the semiconductor package by providing a plurality of chips, it would facilitate provision of the wire bonds of Shin and Jones, and it would desirably facilitate manufacture of a package having small outer dimensions.

Also, Shin and Jones do not appear to disclose a single embodiment wherein one end of each first conductive wire is ball-bonded to one of the electrically conductive patterns and the other end is stitch-bonded to one of the input/output pads of the first semiconductor chip and each of the plurality of second conductive wires for connecting the input/output pads of the second semiconductor chip to the electrically conductive patterns on the resin layer of the substrate are normal wire bonded.

Nevertheless, as cited Fukui discloses an embodiment wherein one end of each first conductive wire is ball-bonded to one of the electrically conductive patterns and the other end is stitch-bonded to one of the input/output pads of the first semiconductor chip, and an embodiment wherein each of the plurality of second conductive wires for connecting the

Art Unit: 2822

input/output pads of the second semiconductor chip to the electrically conductive patterns on the resin layer of the substrate are normal wire bonded "forward wire bonding." In addition, it would have been obvious to substitute the reverse wire bonding of the first semiconductor chip of one embodiment for the forward wire bonding of the embodiment wherein both the first and second chip are forward bonded because it would reduce package thickness. In any case, it would have been obvious to substitute the wire bonding of one embodiment for at least some of the wire bonding of the other embodiment because it would provide wire bonding, and substitution of a known element based on its suitability for its intended use has been held to be prima facie obvious. See MPEP 2144.07.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shin and Jones as applied to claim 1, and further in combination with Lo (6555902).

Shin and Jones do not appear to explicitly disclose wherein the adhesive is silicon having an adhesive layer formed on a top and bottom surface thereon.

Regardless, at column 1, lines 36-40; column 3, lines 26-31; column 4, lines 1-42, Lo discloses wherein the adhesive is silicon 420 having an adhesive layer 404 formed on a top and bottom surface thereon. In

Art Unit: 2822

addition, it would have been obvious to substitute the adhesive of Lo for the adhesive of the applied prior art because it would have a desirable coefficient of expansion and it would minimize stress. Also, it would have been obvious to substitute the adhesive of Lo for the adhesive of the applied prior art because it would provide an adhesive, and substitution of a known element based on its suitability for its intended use has been held to be prima facie obvious. See MPEP 2144.07. Further, it would have been obvious to substitute the adhesive of Lo for the adhesive of the applied prior art because it would provide an alternative adhesive when the use of the adhesive of the applied prior art becomes infeasible, e.g., when the adhesive of the applied prior art is cost ineffective or unavailable. Still further, it would have been obvious to combine the adhesive of Lo with the adhesive of the applied prior art because it would provide an adhesive. Indeed, it has been held that it is obvious to combine two processes for the same purpose. In re Novak 16 USPQ2d 2043. Similarly, "It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose . . . . [T]he idea of combining them flows logically from their having been individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 205 USPQ 1069, 1072 (CCPA 1980) (citations omitted)

Art Unit: 2822

(Claims to a process of preparing a spray - dried detergent by mixing together two conventional spray - dried detergents were held to be prima facie obvious.). See also, In re Crockett, 279 F.2d 274, 126 USPQ 186 (CCPA 1960) (Claims directed to a method and material for treating cast iron using a mixture comprising calcium carbide and magnesium oxide were held unpatentable over prior art disclosures that the aforementioned components individually promote the formation of a nodular structure in cast iron.); and Ex parte Quadranti 25 USPQ2d 1071 (Bd. Pat. App. & Inter. 1992) (Mixture of two known herbicides held prima facie obvious).

Applicant and the assignee of this application are required under 37 CFR 1.105 to provide the following information that is reasonably necessary to the examination of this application.

In response to this requirement please provide a copy of the patent corresponding to each abstract listed on the Information Disclosure Statement filed on 3-14-5.

Applicant is reminded that the reply to this requirement must be made with candor and good faith under 37 CFR 1.56. Where the applicant does not have or cannot readily obtain an item of required information, a statement that the item is unknown or cannot be readily obtained will be accepted as a complete reply to the requirement for that item.

Art Unit: 2822

Applicant's remarks filed 3-14-5 have been fully considered and are adequately addressed by the rejections supra.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

For information on the status of this application applicant should check PAIR: Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alternatively, applicant may contact the File Information Unit at (703) 308-2733. Telephone status inquiries should not be directed to the examiner. See MPEP 1730VIC, MPEP 203.08 and MPEP 102.

Any other telephone inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Graybill at (571) 272-1930. Regular office hours: Monday through Friday, 8:30 a.m. to 6:00 p.m.

Application/Control Number: 10/076,701

Art Unit: 2822

Page 19

The fax phone number for group 2800 is (703) 872-9306.

David E. Graybill
Primary Examiner
Art Unit 2822

D.G. 26-May-05